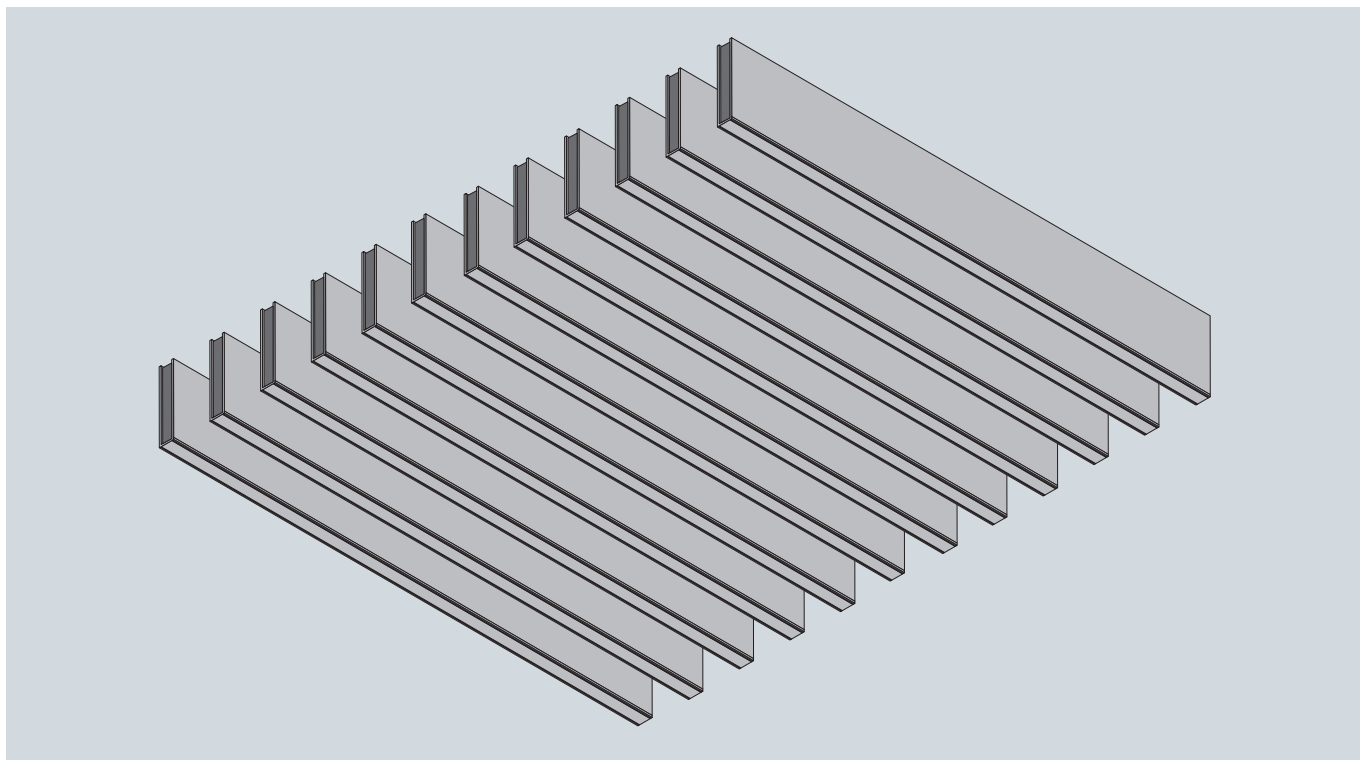




Product detail

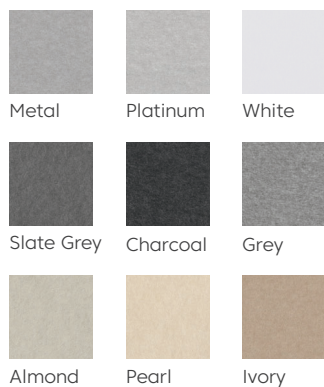
Product Name	Ceiling Beam Baffle-735
Product Category	Ceiling
Material	100% Polyester fibers with > 60% recycled content
Weight	1,400 gram / sq.m +/-
Density	200 kgs / Cubic.m +/-
Thickness	35 mm +/-10%
Size	35 x 1,400 x 150 mm 35 x 2,800 x 150 mm

Performance

Sound Absorption	NRC 0.25 without air gap, ISO 354 NRC 0.60 with air gap, ISO 354
Color Fastness to Light	> 6, ISO 105 B02-1994
Reaction to Fire	ASTM E84, Class A
Indoor Air Quality	Low VOCs emission, formaldehyde and Phenol-free
Moisture Content	< 0.10% by weight

Available Colors

10 Colors Available



Installation

> Installation with specific equipment by the manufacturer

Sustainability



100% recyclable at the end of its useful life



Certified Low VOCs, Clean Indoor Air Quality



No Red list chemicals, Formaldehyde & phenol free



"Produced using 40% solar energy for a more sustainable future."



Minimum 60% post-consumer recycled material



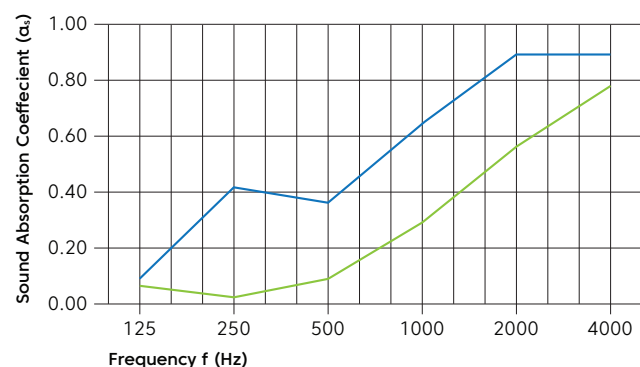
Environmental Product Declaration in accordance with ISO 14025 and EN 15804

Acoustic Performance

Noise Reduction Coefficient SAA/NRC 0.25

ASTM C 423-09a, Standard Test Method for Sound Absorption Coefficients measured by the reverberation room method.

	Absorption Coefficient-Sabins /FT ²							
	125	250	500	1K	2K	4K	SAA	NRC
on air gap	0.07	0.02	0.08	0.28	0.57	0.78	0.24	0.25
with air gap	0.09	0.42	0.36	0.65	0.89	0.89	0.56	0.60



Reaction to Fire

Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E84-21

Class : A

Results Test Specimen	Flame Spread Index	Smoke Developed Index
Fiber-Reinforced Cement Board, Grade II	0-100	0-100
Red Oak Flooring		
Heptane, (HPLC) Grade		
Test # 269716 ID:AP3(Acoustic Felt 3mm ^{+/-})	25	20

Classification

Class A 0-25 Flame Spread Index 0-450 Smoke Developed Index
 Class B 26-75 Flame Spread Index 0-450 Smoke Developed Index
 Class C 76-200 Flame Spread Index 0-450 Smoke Developed Index

Moisture content

ASTM D629-99 (TEST METHOD)

Standard test methods for quantitative analysis of textiles test parameters - Moisture content test result

0.09%

Color Fastness to Light

ISO 105-B02:1994, Textiles-Tests for colourfastness Part B02: colourfastness to artificial light : Xenon arc fading lamp test.

6-7

Rating	Blue Wool Scale
Very poor lightfastness	1
Poor lightfastness	2-3
Fair lightfastness	4-5
Very good lightfastness	6
Excellent lightfastness	7-8

Remark(s) - Test apparatus : Atlas Xenon ARC weather-ometer model Ci3000+
 - Blue wool reference rang from 1 (Very low colour fastness) to 8 (Very High colour fastness)

Environmental

At Feltech, sustainability is at the core of our innovation. We create high-performance acoustic and thermal insulation products using recycled polyester fibers from discarded water bottles. Every square of our carpet tiles and acoustic wall panels contains post-consumer recycled polyester, helping to reduce waste and support a circular economy.

With up to 60% recycled content, our products exceed USGBC LEED MR credit 4.1 & 4.2 targets for recycled materials. By choosing Feltech, you're not only enhancing your space with superior acoustic solutions but also contributing to a cleaner, more sustainable environment while potentially earning LEED points for your project.



EPD

"Global GreenTag ensures environmental transparency with ISO-Compliant Environmental Product Declarations (EPDs)"

<https://www.globalgreentag.com/manufacturer-feltech-manufacturing.html>



Indoor Advantage™ Gold

Indoor Air Quality certified to SCS-EC10.3-2014 v4.0 conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 for the school classroom, private office, and single - family residence parameters.

https://www.scsglobalservices.com/certified-green-products-guide?pd_pid=47731



CE marking

CE-marked for compliance with European safety, health, and environmental standards, ensuring quality and reliability.



ISO 14001

Environmental Management

Certified to ISO 14001, ensuring adherence to international environmental management standards for sustainable and responsible manufacturing



Declare.

LBC Red List Free; building product is completely free of all toxic chemicals and materials banned under the Living Building Challenge (LBC).

Feltech Manufacturing Co.,Ltd

Feltech pioneered the use of polyester fibers for their non-toxic, non - irritant properties and high efficiency in both sound absorption and thermal insulation. These fibers are also highly recyclable, contributing to cleaner indoor air quality and a more sustainable future.

Feltech operates state-of-the-art factories in Amata City Industrial Estate, Chonburi, Thailand, equipped with the latest technology, including advanced digital printing. This allows us to print any image or design directly onto our acoustic products, enhancing their high-quality surface finishes and creating unique environments for homes and workspaces.

With our expertise in acoustic insulation technologies, our skilled team of designers provides a comprehensive service—from design consultation and technical advice to quotations and installation, ensuring a seamless experience

Our commitment to sustainability ensures a positive impact on both present and future generations.



Sales Office :

3388/92, 25th Floor, Sirinrat Bldg., Rama 4Rd., Klongton, Klongtoey, Bangkok 10110 Thailand

Map.

<https://maps.app.goo.gl/TBfohCpTDYwRnD7u5>

Manufacturing Facilities : Amata City Chonburi Industrial Estate,

Plant 1

700/377, Moo 6, Donhuaroh, Muang Chonburi. Chonburi. 20000 Thailand

Map.

<https://maps.app.goo.gl/ZGABMYA8zKUgQ4zB6>

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Hollow Box Baffles Installation Guideline

This guide covers the suspension of lightweight, sound-absorbing **PET** (polyethylene terephthalate) box baffles utilizing a secure Z-clip leveling system hooked over structural square aluminum or steel tubing.

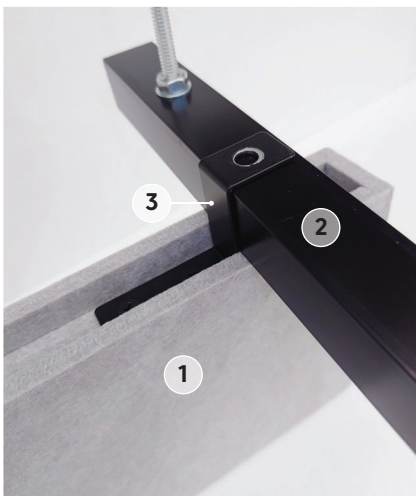
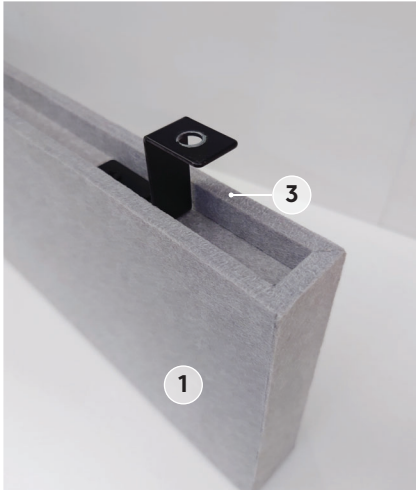
Hardware Components Overview

Before starting, ensure you have the following components :

- **PET Box Baffle** ⁽¹⁾ : Prefabricated hollow acoustic baffle.
- **Square Tube Grid** ⁽²⁾ : The ceiling-suspended structural support (typically 1"x1" tubing).
- **Baffle Z-Clip** ⁽³⁾ : Factory-installed or field-mounted to the top inside/lip of the PET baffle

The Ceiling Grid Structure (Square Tubes)

When mounting box baffles, a primary support grid needs to be built first. This engineering diagram shows how main support carriers hold parallel rows of square tubes. Your PET box baffles will follow this exact layout, hanging directly beneath and running parallel to these square carrier tubes.



Note : Ensure all clips face the same direction down the row to allow the baffles to slide or drop into place uniformly.

Step-by-Step Installation Process

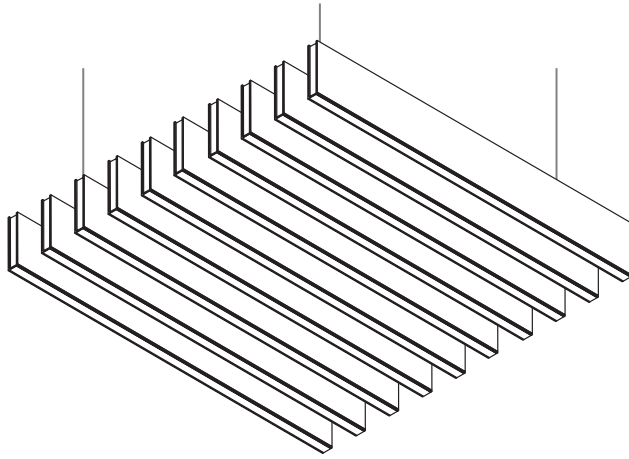
Step 1: Layout and Grid Preparation

1. **Mark the Grid**: Based on your architectural reflected ceiling plan (RCP), mark the exact spacing for your square tube runs.
2. **Install Square Tubes**: Suspend the square tubes from the subfloor. Ensure the tubes are perfectly level across the entire run.

Step 2: Attaching the Z-Clips to the Square Tube

If your Z-clips are engineered to snap/clamp over the tube, skip to the next step.

1. **Measure and mark** the baffle placement intervals along the square tubes



2. **Align the Z-clip** (the receiver channel facing upward) with the bottom or side of the square tube, depending on your specific hardware design.
3. **Fasten the Z-clip to the square tube** using self-tapping metal screws

Step 3: Preparing the PET Box Baffle

1. **Center the Z-clip** (channel facing downward) on the top structural backbone or inside upper lip of the PET box baffle.
2. **Secure the clip to the PET material** using screw that won't tear through the felt.

Step 4: Hanging and Engaging the Baffle

- Lift the PET box baffle up toward the square tube grid.

Step 5: Final Alignment and Locking

1. **Check Level** : Use a laser level to ensure the bottom line of the baffles is completely flush.
2. **Adjust Spacing** : Slide the baffles left or right along the square tube if minor micro-adjustments are needed for perfect alignment.

